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| FORM PTO-1390<br>(REV. 01-2003)  |  | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE           |  | ATTORNEY'S DOCKET<br>NUMBER:<br><br><b>038665.55793US</b>              |  |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>         DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>         CONCERNING A FILING UNDER 35 U.S.C. 371</b>  |  |   |  | U.S. APPLICATION NO. (if known, see 37<br>CFR 1.5)<br><b>10/521744</b> |  |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/GB2004/004896</b>  |  | INTERNATIONAL FILING DATE<br><b>19 November 2004 (19.11.2004)</b> |  | PRIORITY DATE CLAIMED<br><b>21 November 2003 (21.11.2003)</b>          |  |
| TITLE OF INVENTION<br><b>WIDEBAND ANTENNA AND RECEIVER CALIBRATION</b>   |  |   |  |  |  |
| APPLICANT(S) FOR DO/EO/US<br><b>Michael Richard RICHARDSON</b>   |  |   |  |  |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |   |  |  |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)).           <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> has been transmitted by the International Bureau</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached herewith.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 USC 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> have been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))</li> <li>10. <input type="checkbox"/> An English translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Item 11. to 20. below concern other document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 USC 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 USC 154(d)(4)</li> <li>20. <input checked="" type="checkbox"/> Other items or information:           <ol style="list-style-type: none"> <li>a. Two (2) sheets of drawings showing Figures 1-2</li> </ol> </li> </ol> |  |   |  |  |  |

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/521744</b>  |              | INTERNATIONAL APPLICATION NO.<br><b>PCT/GB2004/004896</b>                |            | ATTORNEY'S DOCKET NUMBER<br><b>038665.55793US</b> |              |
| 21. The following fees are submitted:  |              |  |            | CALCULATIONS                                      | PTO USE ONLY |
|  |              |  |            | \$  |              |
| <input checked="" type="checkbox"/> a) Basic national fee..... \$300.00  |              |  |            |   |              |
| <input checked="" type="checkbox"/> b) Examination fee..... \$200.00   |              |  |            |   |              |
| <input checked="" type="checkbox"/> c) Search fee..... \$500.00  |              |  |            |   |              |
| <b>TOTAL OF ABOVE CALCULATIONS = \$1000.00</b>   |              |  |            | <b>\$1,000.00</b>                                 |              |
| Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  |              |  |            |   |              |
| Total Sheets   | Extra sheets | Number of each add'l 50 or fraction thereof (round up to a whole number) | RATE       |   |              |
| 13- 100 =  | /50 =        |  | x \$250.00 | \$  |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).   |              |  |            | \$  |              |
| Claims   | Number Filed | Number Extra   | Rate       |   |              |
| Total Claims   | 8 - 20 =     | 15   | X \$50.00  |   |              |
| Independent Claims   | 1 - 3 =      | 0  | X \$200.00 | \$  |              |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |              |  | + \$360.00 | \$  |              |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |  |            | \$  |              |
| <input type="checkbox"/> Applicant claims Small Entity Status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |              |  |            | \$  |              |
| <b>SUBTOTAL =</b>  |              |  |            | <b>\$1,000.00</b>                                 |              |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  |              |  |            | \$  |              |
| <b>TOTAL NATIONAL FEE =</b>  |              |  |            | <b>\$1,000.00</b>                                 |              |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +   |              |  |            | \$ 40.00  |              |
| <b>TOTAL FEE ENCLOSED =</b>  |              |  |            | <b>\$1,040.00</b>                                 |              |
|  |              |  |            | Amount to be: refunded                            | \$           |
|  |              |  |            | Charged   | \$           |
| a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1,040.00</u> for the filing fee and for the assignment recording fee is enclosed   |              |  |            |   |              |
| b. <input type="checkbox"/> Please charge my Deposit Account No. <u>05-1323</u> (Attorney Docket No. ==) in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.   |              |  |            |   |              |
| c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees, which may be required, or credit any overpayment to Deposit Account No. <u>05-1323</u> . (ATTORNEY DOCKET NO. <u>038665.55793US</u> .) A duplicate copy of this sheet is enclosed. |              |  |            |   |              |
| d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.                            |              |  |            |   |              |
| NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.  |              |  |            |   |              |
| SEND ALL CORRESPONDENCE TO:  |              |  |            |   |              |
| Crowell & Moring, LLP  |              |  |            | SIGNATURE   |              |
| Intellectual Property Group  |              |  |            | Gary R. Edwards                                   |              |
| P.O. Box 14300   |              |  |            | NAME  |              |
| Washington, D.C. 20044-4300  |              |  |            | 31,824  |              |
| Tel. No. (202) 624-2500  |              |  |            | REGISTRATION NUMBER                               |              |
| Fax No. (202) 628-8844   |              |  |            | January 19, 2005                                  |              |
| GRE:kms 356319v1   |              |  |            | DATE  |              |